

**Abstract:**

A polynucleotide consisting of the base sequence of SEQ ID NO: 2, or a complementary strand thereto, wherein the X is one of the group being defined by the bases A, C or T. A primer and a probe specific for that polynucleotide, wherein the primer and/or probe contains at the least 10 consecutive nucleotides, and finally use of the probe for proving parkinsonism inheritance.